

Hal'pern, G. D.
COMPARATIVE INVESTIGATION OF VARIOUS OILS
OF THE USSR. COMMUNICATION 2. HYDROCARBONS
OF THE GASOLINE-KEROSENE FRACTIONS OF LIGHT
OILS OF VARIOUS AGE, 16p, 5 refs, MTWL: 276.
Order from ODS or FTC: 51-85 51-17901

Trans. of Akademiya Nauk SSSR, Otdelenie Tekhni-
cheskikh Nauk, Izvestiya, 1941, no. 4, p. 45-54.

DESCRIPTORS: *Gasoline, Kerosene, Hydrocarbons,
*Refractive index, Phenols, Determination, Mineral
oils.

61-17901

I. Hal'pern, G. D.
II. MTWL-276
III. Stichting Moedijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Zelinskii, N. D. and Hal'pern, G. D.
INVESTIGATION OF THE JURASSIC OIL FROM THE
KOSTCHAGYL OIL DEPOSIT. COMMUNICATION 3.
CORRECTED DATA REGARDING THE COMPOSITION
OF THE GASOLINE-KEROSINE FRACTIONS. 13p.
11 refs. MTWL-275.
Order from OTS or ETC \$1.85

61-17990

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1941, no. 5, p. 3-10.

DESCRIPTORS: Gasoline, Kerosine, Mineral oils, Analysis, Dehydrogenation, Catalysts.

61-17990

- I. Zelinskii, N. D.
- II. Hal'pern, G. D.
- III. MTWL-275
- IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

Glushnev, V. E. and Gerasimov, M. M.
ZINC CHLORIDE REFINING OF LIGHT GASOLINE
CRACKED IN A SOVIET UNIT WITH ATTENDANT
INCREASE OF ITS OCTANE NUMBER. [1961] 8p.
1 ref.

Order from OTS or SLA

61-16645

Trans. of Akademiya Nauk SSSR. Otdelenie Tech-
nicheskikh Nauk. Izvestiya, 1942, no. 3/4, p. 3-10.

DESCRIPTORS: *Gasoline, Hydrocarbons, Decompo-
sition, *Zinc compounds, Chlorides, Antiknock,
Knocking.

(Engineering--Chemical, TT, v. 6, no. 5)

61-16645

I. Glushnev, V. E.
II. Gerasimov, M. M.

180482

Office of Technical Services

Berents, L. I., Ershov, N. V. and Kazarnovskaya,
M. A.
DESULFURIZATION OF GASOLINE, LIGROINS AND
DIESEL FUELS. [1961] 8p. 6 refs.
Order from OTS or SLA \$1.10 61-16646

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1962, no. 3/4, p. 11-19.

DESCRIPTORS: *Gasoline, *Fuel oil, *Oils, *Sulfur,
Separation.

(Materials--Fuels. IT, v. 6, no. 5)

61-16646

I. Berents, L. I.
II. Ershov, N. V.
III. Kazarnovskaya, M. A.

180483

Office of Technical Services

61-10143

Frost, A. V.
VISCOSITY OF VAPORS OF PETROLEUM PRODUCTS.
[1960] 7p. 21 refs.
Order from L.C. or SLA ml\$1.80, ph\$1.80 61-10143

Trans. of Akademiya Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk. Izvestiya, 1942, no. 3/4, p. 21-25.

Approximate empirical formulae and a nomogram are given for the calculation of the viscosities of vapors of pure hydrocarbons and of petroleum products.

141, 146

1. Petroleum--Decomposition
2. Organic vapors--Viscosity
1. Frost, A. V.

Office of Technical Services

(Chemistry--Physical, TT, v 5, no. 2)

Kravets, B. A. and Sokolik, A. S.
OXIDATION OF FUELS IN THE INTAKE SYSTEM
OF THE ENGINE. [1961] 7p. 11 refs.
Order from OTS or SLA \$1.10 61-16654

Trans. of Akademiya Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk. Izvestiya, 1942, no. 3/4, p. 27-32.

DESCRIPTORS: Gasoline, Internal combustion engines, Oxidation, *Fuels, Tests.

61-16654

I. Kravets, B. A.
II. Sokolik, A. S.

180485

Office of Technical Services

(Materials--Fuels, TT, v. 6, no. 5)

Pal'velev, V. T.

CONTENT OF METHANE IN COAL STRATA. [1961]

6p. 18 refs.

Order from OTS or SLA \$1.10

61-16631

Condensed trans. of *Akademlya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya*, 1942, no. 5/6, p. 3-16

DESCRIPTORS: *Coal, Chemical analysis, *Methane, Adsorption.

An account is given of research conducted by A. A. Skochinski and his co-workers at the Mining Institute of the Academy of Sciences U. S. S. R. on gas liberation from coal and desorption of methane under high pressures. Under pressure of 100 kg/sq cm and higher the amount of methane present in the pores of coal in the free state exceeds that which can be desorbed from the coal under the same pressure. The maximum of methane adsorbed by the coal is apparently reached at pressures of 100-150 kg/sq cm. (Author)

(Materials--Fuels, TT, v. 6, no. 5)

61-16631

I. Pal'velev, V. T.

180484

Office of Technical Services

Aviation

61-16652

Musatov, K. A. and Nifontova, S. S.
REFINING OF PETROLEUM GASES IN CONJUNCTION
WITH RECLAIMING ACID FROM ACID SLUDGE.

I. Musatov, K. A.
II. Nifontova, S. S.

[1961] 71 16 refs

Order from GTS or SLA \$1.10

61-16652

Trans. of Akademiya Nauk SSSR, Otdelenie Tekhnicheskikh Nauk, Izvestiya, 1947, no. 5/6, p. 29-34.

DESCRIPTORS: Petroleum, Processing. *Sulfuric acid, Decomposition, *Charcoal, Chemical reactions, *Acids, Hydrocarbons, Gases.

151721

An investigation is reported showing that charcoal can be used for decomposition of sulfuric acid, yielding a dilute acid suitable for various industrial uses. This process can be employed for reclaiming acid from acid sludge obtained as a by-product of refining petroleum products. (Author)

Office of Technical Services

(Engineering--Chemical, TT, v. 6, no. 7)

Nametkin, S. S. and Teneva, R. S.
LUBRICATING OILS FROM ISHIMBAEVO CRUDE OIL.
[1961] 7p. 7 refs.
Order from OTS or SLA \$1.10

61-16662

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1962, no. 9, p. 54-59.

DESCRIPTORS: *Lubrication, *Oils, Processing, USSR, Fractionation, Fuels.

(Materials--Lubricants, TT, v. 6, no. 5)

61-16662

I. Nametkin, S. S.
II. Teneva, R. S.

180480

Office of Technical Services

61-16663

Frost, A. V.
IMPROVEMENT OF OCTANE RATING OF GASOLINE
BY ISOMERIZATION. I. EQUILIBRIA IN ISOMERIZA-
TION OF PARAFFINS AND OF CYCLOHEXANE TO
METHYLCYCLOPENTANE. [1961] 8p. 24 refs.
Order from OTS or SLA \$1.10 61-16663

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1942, no. 10, p. 3-10.

DESCRIPTORS: *Gasoline, Molecular isomerism, Thermodynamics, Octanes, Hydrocarbons, Chemical equilibrium, Cyclohexanes, Cyclopentanes, Methyl radicals.

I. Frost, A. V.
II. Title: Equilibria...

176566

Office of Technical Services

(Materials--Fuels, TT, v. 6, no. 6)

Nametkin, S. S. and Rozenberg, L. M.
MATERIALS ON THE CHEMISTRY OF OXIDIZING
CRACKING OF HYDROCARBONS IN THE VAPOR
PHASE, I. [1961] 14p. 11 refs.
Order from OTS or SLA \$1.60 61-16976

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk (Izvestiya) 1962, no. 10, p. 11-25.

DESCRIPTORS: *Hydrocarbons, Decomposition, Oxidation.

The presence of oxygen in the zone of cracking of toluene leads to oxidation of the methyl group without affecting the benzene ring. Oxidation of the side chain is apparently due to the existence of an active tautomeric form of toluene. Oxidation of toluene proceeds through formation of an intermediate peroxide compound with subsequent decomposition of the latter into benzaldehyde and water. Under conditions of oxidizing cracking in the vapor phase, toluene yields diphenyl-
(Chemistry--Organic, TT, v. 6, no. 6) (over)

61-16976

I. Nametkin, S. S. .
II. Rozenberg, L. M.

176597

Office of Technical Services

Klimov, B. K., Lant, V. A.
THERMAL DECOMPOSITION OF SAPROPEL, COAL,
BALKHASHITE AND HUMIC SUBSTANCES OF PEAT.
[1961] Sp. 2 refs.

Order from OTS or SLA \$1.10

61-16954

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1942, no. 11/12, p. 3-10.

DESCRIPTORS: *Coal, *Peat, Decomposition, Fuels.

(Materials--Fuels, TT, v. 6, no. 5)

61-16954

1. Title: Sapropel
2. Title: Balkhashite
1. Klimov, B. K.
- II. Lant, V. A.

180524

Office of Technical Services

PRONOV, A. N.

Bulletin De L'Academie des Sciences de L'Urss, Classe
des Sci. Tech., Nos. 1-2, 2 tables, 2500 words; 1943.

Steel melting experiments with application of
diffusive deoxidation.

Brutcher, Trans. Order No. 1920, \$3.75

Nomekin, S. S., Putsillo, V. G. and
Shcheglova, E. P.

ANALYSIS OF SULFUR COMPOUNDS OF LIGHT
PETROLEUM FRACTIONS. [1961] 13p. 11 refs.
Order from OTS or SLA-\$1.60 61-16943

Trans. of ~~Akademiya Nauk SSSR~~ Otdelenie
Tekhnicheskikh Nauk, ~~Izvestiya~~, 1943, no. 1/2,
p. 10-22.

DESCRIPTORS: *Petroleum, *Gasoline, *Sulfur
compounds, Chemical analysis, Thiols, Cadmium
compounds, Chlorides, Thiophenes, Sodium compounds,
Carbonates.

A criticism (etc) of the existing methods of analysis of
sulfur compounds in gasoline established that the
methods of Faragher and Brown require further de-
velopment to make them more precise. Cadmium
(Materials--Fuels, TT, v. 6, no. 6) (over)

61-16943

- I. Nomekin, S. S.
- II. Putsillo, V. G.
- III. Shcheglova, E. P.

176595

Office of Technical Services

On the Question of a Unified Method of Deter-
mining the Strength of Coal, by M. M.
Protodyakonov, 25 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, No 2, 1943, pp 283-298.

2

MXF P-123

Sci -
Jul 61

min/met

161, 388

Sanin, P. I.
INVESTIGATION OF ACIDS FROM NATURAL
ASPHALTS. [1961] 11p. 16 refs.
Order from CTS or SLA \$1.60 61-18893

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1943, no. 5/6, p. 18-28.

DESCRIPTORS: *Asphalts, Chemical analysis,
*Organic acids, Separation, Bitumens, *Petroleum,
Oils, Meteorology.

Two natural asphalts were examined: kir, a bituminous material containing over 89% ash, which is regarded as a product of weathering of oil, and Kair asphaltite containing only 0.4% ash and showing no signs of being subjected to extensive oxidation. The organic portion of the first contained 1.37% sulfur, that of the second, 6.88%. From the first, 6-7% acids on the organic matter were isolated and an analysis of these acids (Chemistry--Analytical, TT, v. 7, no. 11) (over)

61-18893

I. Sanin, P. I.

Office of Technical Services

Samarin, A., Yaskevich, A., and Paisov, I.
THE INFLUENCE OF NITROGEN ON THE PROPERTIES OF RUSTLESS STEELS, tr. by G.H. Davison.
11 p. MTWL: 669.
Order from OTS or ETC \$1.55

61-17201

Trans. of Akademiya Nauk SSSR, Otdelenie Tekhnicheskikh Nauk, Izvestiya, 1943, no. 5/6, p. 71-77.

DESCRIPTORS: *Stainless steel. Nitrogen, Mechanical properties.

61-17201

I. Samarin, A.
II. Yaskevich, A.
III. Paisov, I.
IV. MTWL-669
V. Stichting Moeilijk
Toegankelijke Wetenschappelijke Literatuur.

Office of Technical Services

Heat Exchange in a Bed of Particles Heated
by a Stream of Hot Gas, by O. A. Tsukernova,
E. N. Shupatina. UNGI.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 7, 1963, pp 62-72.

SLA 60-2300.7
DSIR LNU M.1231

(loan)

108,385

Sci - Phys
Feb 60

Behavior of Steel in Gas Chromizing and Possible
Applications of Gas Chromizing, by V. I. Arkharov.

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh, No 8, 1943,
pp 62-67.

Butcher Tr No 1837

Scientific - Minerals/Metals

\$4.65

14,538

LYUBAN, A. P.

Bulletin De L'Academie Des Sci. De L'Urss, Classe
Des Sci. Tech., 1943, No. 9-10, 2 figures, 6000 words.

Dissociation of Oxides During Reduction.

Butcher Trans., Order No. 2093, \$9.00

ARKHAROV, V. I.
HEMELHOV, S. A.

Bulletin De L'Academie Des Sciences De L'Urss,
Nos. 9-10, 3600 words; 1943. (IAN-DTUN)

Carbonization of Electrolytic Chromium Deposits.

Brutcher Trans, Order No. 1757, \$ 5.40

Zabavin, V. I.

OXIDATION OF LUBRICATING OILS, RESINS AND ASPHALTENES OF PERMIAN OIL AND PROBLEMS OF THE ORIGIN OF ASPHALTIC RESINOUS SUBSTANCES. [1961] 10p. 7 refs.

Order from OTS or SLA \$1.10

61-18350

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1943, no. 9/10, p. 57-67.

DESCRIPTORS: *Oils, *Lubrication, Oxidation, Resins, Asphalt, Solubility, Hydrochloric acid, Methanol, Azo radicals, Methyl radicals, Chemical analysis, Coal, Rock, Minerals, Shales, Petroleum, Condensation reactions, Humic acids, Carbenes, Fuels

Oxidation of asphaltene with air at 180-185° for 216 hours yielded a product soluble in alkali and greatly resembling humic acids in composition and properties. Oxidation of resins is much more difficult than that of (Chemistry--Physical, TT, v. 6, no. 10) (over)

61-18350

1. Title: Asphaltenes
2. Title: Permian oil
3. Title: Asphaltic
1. Zabavin, V. I.

1850

Office of Technical Services

Bashkistrov, A. N. and Nikolaev, A. G.
RAPID METHOD OF DETERMINATION OF SULFUR
IN GASOLINE. [1961] [1] p. 1 ref.
Order from OTS or SLA \$1.10 61-16930

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. (Izvestiya), 1943, no. 9/10, p. 68-69.

DESCRIPTORS: *Gasoline, Chemical analysis.
*Sulfur, Determination, Combustion.

(Materials--Fuels, TT. v. 6, no. 6)

61-16930

I. Bashkistrov, A. N.
II. Nikolaev, A. G.

176594

Office of Technical Services

Nametkin, S. S. and Rozenberg, L. M.
[MATERIALS ON THE] CHEMISTRY OF OXIDIZING
CRACKING OF HYDROCARBONS IN THE VAPOR
PHASE, II. [1961] 12p. 6 refs.
Order from OTS or SLA \$1.60

61-16945

Trans. of Akademiya Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk (Izvestiya) 1943, no. 11/12, p. 3-14.

DESCRIPTORS: *Hydrocarbons, Decomposition, Oxidation.

The basic reaction in oxidizing cracking of tetralin in the vapor phase is dehydrogenation without destruction of the ring; it results in formation of naphthalene and water. Four reactions occur simultaneously: (1) rupture of the naphthenic ring, forming aromatic hydrocarbons (2) oxidation of tetralin to the peroxide with subsequent decomposition of the latter, forming α -naphthol; (3) oxidation of toluene, forming phenol, and (4)

(Chemistry-Organic, TT, v. 6, no. 6)

(over)

61-16945

I. Nametkin, S. S.
II. Rozenberg, L. M.

176596

Office of Technical Services

61-18153

Kosterin, S. I.
INVESTIGATION OF HYDRAULIC RESISTANCE IN
THE MOVEMENT OF GAS-LIQUID MEDIA IN
HORIZONTAL TUBES. [1961] 12p. 14 refs.
Order from O'S or SLA \$1.60 61-18153

I. Kosterin, S. I.

Trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. (Izvestiya), 1943, no. 11/12,
p. 37-49.

DESCRIPTORS: *Boilers, *Heat exchangers, Fluid
flow, Gas flow, Analysis.

176600

Office of Technical Services

In flow of a gas-liquid mixture in horizontal pipes the
friction factor is a variable value depending upon the
concentration of the gaseous phase, the Reynolds
number calculated for the liquid, the diameter of the
pipe and the roughness of its surface, the pressure
when the Reynolds number is small and the pulsations
(Mechanics--Hydrodynamics, TT, v. 6 no. 6) (over)

62-10868

Bardin, I. P.

PLAN OF BASIC SCIENTIFIC RESEARCHES OF THE
DEPARTMENT OF TECHNICAL SCIENCES, ACADEMY
OF SCIENCES USSR. FOR 1944. [1961] 3p.
Order from OTS or SLA \$1.10 62-10868

I. Bardin, I. P.

[Condensed] trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. Izvestiya, 1944, no. 1/2, p. 3-12

DESCRIPTORS: *Scientific research, Research program
administration.

(Research Methods, Techniques and Equipment, TT,
v. 8, no. 6)

Office of Technical Services

Larin, A. Ya.
CRACKING OF HEAVY PETROLEUM STOCKS OVER
HEATED SURFACES. [1961] 5p.
Order from CTS or SLA \$1.10 61-18170

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya. 1944, no. 1/2, p. 42-47.

DESCRIPTORS: Hydrocarbons, Decomposition, *Petroleum, Fuel oil, Processing.

Experiments of cracking of oil distillates over electrically heated metallic spirals established that a gas is produced under these conditions of a composition approximately identical with that obtained from paraffin wax. However, the yields of gas per unit energy consumed are the lower, the richer is the charge in compounds with a low hydrogen content. An oil distillate consisting essentially of naphthenes gives a yield of gas per kw.-hour which is half that obtainable from paraffin (Engineering--Chemical, TT, v. 6, no. 7) (over)

61-18170

I. Larin, A. Ya.

Office of Technical Services

Bashkirov, A. N. and Vener, I. M.
PREPARATION OF PURE CARBOLIC ACID FROM
COAL TAR PHENOLS. [1961] 3p. 2 refs.
Order from OTS or SLA \$1.10 62-10869

[Condensed] trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. Izvestiya, 1944, no. 1/2,
p. 48-50.

DESCRIPTORS: *Coal tar, *Phenols, Synthesis, Chemi-
cal reactions.

(Chemistry--Organic, TT, v. 8, no. 5)

62-10869

I. Bashkirov, A. N.
II. Vener, I. M.

Office of Technical Services

TT-63-20994

I. Dombrovskii, P. I.

Dombrovskii, P. I.
EFFECT OF ELASTIC VIBRATIONS ON THE
VISCOSITY OF LIQUIDS. [1963] [6p]
Order from OTS, SLA, or ETC \$1.10 TT-63-20994

Trans. of Akademiya Nauk SSSR, Otdel[enie] Tekh-
[nicheskikh] Nauk. [Izvestiya] 1944, no. 1/2, p. 68-70.

DESCRIPTORS: *Liquid, *Viscosity, Vibration,
*Ultrasonic radiation, Crystallization, Water,
Ethanol, Pentanes, Benzenes, Salicylic acids,
Nitrobenzenes, Temperature, Viscosimeters,

(Physics, TT, v. 11, no. 9)

Office of Technical Services

The Effect of a Constant Electric Field on the
Viscosity of Liquids, by A. K. Chernyuk,
10 pp,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 2, 1944, pp 62-67.

Sci Mus Lib No 54/3669

Scientific - Physics Mar 55 CTS

21,948

The Maximum Viscosity of Irrational Systems, by
V. V. Glavinski.

RUSSIAN, per, Ak Nauk SSSR, Otial Tekh Nauk, Inst
Mashinovedeniya, Soveshchaniya Vyaskosti Zhidkost i
Kolloid Rastvorov, Vol II, 1944, pp 89-93.

Asso: Tech Serv RJ-1453
" " " 36X23R

Sci - Chem

Apr 59

85, 325

9AN, OTN, # 6 (1944)

The Sinter Corundum and the High-Grade
Alumina Ceramics in Modern Aeronautical
Engineering

Avail @ Sci Museum - 49/4561

B.B.

Calculating the Value of Frostheaving Forces
on Foundations, by N. I. Saltykov.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel
Tekhn Nauk, No 6, 1954.

OCIE Tr 46

Scientific - Geophysics

CTB 65/Feb 55

21424

62-10874

RESEARCHES CARRIED OUT AT THE INSTITUTIONS OF THE DEPARTMENT OF TECHNICAL SCIENCES, ACADEMY OF SCIENCES U.S.S.R. IN 1943. [1962] 5p. 1 ref.
Order from OTS or SLA \$1.10 62-10874

[Condensed] trans. of Akad[emiya Nauk SSSR].
[Otdelenie] Tekhnicheskikh Nauk. Izv[estiya] 1944,
no. 7/8, p. 530-539.

DESCRIPTORS: *Scientific research, Power plants, Steam, Temperature, Pressure, Coal gas, Production, Internal combustion engines, Fuels, Heat exchangers, Petroleum, Sources, Geology, Moisture, Oils, Asphalt, Deposits, Geochemistry, Bitumens, Geo physical prospecting, Aluminum compounds, Silicates, Catalysis, Hydrocarbons, Phenols, Lubricants, Coal, Shales, Peat, Coke, Industry.
(Research Methods, Techniques and Equipment, IT, v. 8, no. 8)

Office of Technical Services

Hydrodynamic Theory of Horizontal Centrifugal
Casting, by B. F. Vilyun.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 10, 1964, pp 39-46.

Dept of Interior
US Bur of Mines
Central Experiment Station
Pittsburgh, Pa.

Sci - Engr
May 59

87,551

Kusakov, M. M. and Krym, K. S.
TRIBOMETER WITH AN ELASTIC AXIS FOR
MEASURING KINETIC FRICTION UNDER CONDI-
TIONS OF BOUNDARY LUBRICATION. [1961] 13p.
(1 fig. omits 3) 15 refs.

Order from OTS or SLA \$1.60

61-20191

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. [Investiya, 1964, p. 275-287.

DESCRIPTORS: Friction; Measurement; Lubrication; Lubricants

(Machinery-Lubrication, IT, v. 7, no. 7)

61-20191

- i. Title: Tribometers
1. Kusakov, M. M.
- ii. Krym, K. S.

Office of Technical Services

Nametkin, S. S. and Klimov, B. K.
TEN YEARS' WORK OF THE INSTITUTE OF
MINERAL FUELS, ACADEMY OF SCIENCES
U.S.S.R. (1954-64). [1962] 5p.
Order from OIS or SLA \$1.10

62-10875

[Condensed trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. Izvestiya, 1962, no. 10, 11,
p. 1-6]

DESCRIPTORS: *Scientific research, Minerals, *Fuels

(Materials--Fuels, IT, v. 8, no. 8)

62-10875

I. Nametkin, S. S.
II. Klimov, B. K.

Office of Technical Services

Kusakov, M. M.
DEPENDENCE OF THE VISCOSITY OF LUBRICATING OILS CONTAINING ADDITIVES UPON THE CONCENTRATION OF THE LATTER AND THE TEMPERATURE. [1961] 13p. 10 refs.
Order from OTS or SLA \$1.60 61-18212

Trans. of Akademlya Nauk SSSR. Otdelenie
Technicheskikh Nauk. Izvestiya, 1944, p. 672-684.

DESCRIPTORS: *Lubrication, *Oils, *Lubricant
additives, Viscosity, Temperature.

Changes in the viscosity of several samples of lubricating oils were studied at various temperatures with the aid of a universal thermocryostat, produced by adding one of three additives of high viscosity and by diluting the oil with gasoline. The additives included paratone, superol and vinipol. An exponential inter-

(Materials--Lubricants, TT, v. 6, no. 6) (over)

61-18212

I. Kusakov, M. M.

176614

Office of Technical Services

Lubman, N. M.
SURFACE ACTIVITY OF NEUTRALIZED
SULFONATED OILS. [1961] 6p. 6 refs.
Order from OTS or SLA \$1.10 61-18211

Trans. of Akademiya Nauk SSSR, Ordelenie
Tekhnicheskikh Nauk, (Fizmatlyz), 1944, p. 685-689.

DESCRIPTORS: *Vegetable oils, Surface tension,
*Wetting agents, Oils.

The surface activity of aqueous solutions of a de-
mulsifying agent prepared from sulfonated vegetable
oils and termed "sum" was studied in connection with
demulsification of crude oil emulsions and compared
with that of a mixture of sodium salts of sulfo-
naphthenic acids. The surface tension of solutions of
"sum" was found to decrease at the interface with air
with rise of the concentration of "sum" and to reach

(Chemistry--Physical, TT, v. 6, no. 6) (over)

61-18211

L. Lubman, N. M.

176613

Office of Technical Services

Titov, N. G.

QUANTITATIVE REMOVAL OF TETRAETHYL LEAD
FROM MOTOR FUELS. [1961] 5p. 1 ref.
Order from OTS or SLA \$1.10 61-18210

Trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. (Izvestiya), 1944, p. 670-694.

DESCRIPTORS: *Gasoline, Chemical analysis, *Lead
compounds, *Ethyl radicals, Quantitative analysis.

A method of complete removal of tetraethyllead from
gasoline is outlined which is also suitable for gravi-
metric and volumetric analysis. It consists in
heating the sample with four volumes glacial acetic
acid at 75-80° for 3 hours, washing out the acetic acid
with water, evaporating the aqueous acetic acid to
dryness and converting the lead acetate into a sulfate
or concentrating the acetic acid solution and titrating

(Materials--Fuels, TT, v. 6, no. 6)

(over)

61-18210

I. Titov, N. G.

176612

Office of Technical Services

Nametkin, S. S. and Serebrennikova, A. G.
CHLORINATION OF PETROLEUM PENTANE AND
PREPARATION OF AMYL ALCOHOL AND AMYL
ACETATE. [1961] 11 p. 22 refs.

Order from OTS or SLA \$1.60

61-18208

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1944, p. 695-708.

DESCRIPTORS: *Pentanes, *Chlorination, *Acetates, Pentyl radicals, Pentanols, Synthesis.

A study of continuous chlorination of pentanes from petroleum was carried out. Use of dry chlorine and an excess of pentane in the reaction mixture were essential for the avoidance of polychlorides and deposition of carbon. The recommended ratio of pentane to chlorine is 7:1. Complete hydrolysis of isoamyl chloride, primary as well as secondary, is possible with sodium oleate and water in a one hour reaction at 170-180°, at which (Chemistry--Organic, TT, v. 6, no. 8) (over)

61-18208

I. Nametkin, S. S.
II. Serebrennikova, A. G.

195137

TT-65-17162

Office of Technical Services

Nametkin, S. S. and Rozenberg, L. N.
[MATERIALS ON THE] CHEMISTRY OF OXIDIZING
CRACKING OF HYDROCARBONS IN THE VAPOR
PHASE, III. [1961] 6p. 9 refs.
Order from OTS or SLA \$1.10

61-18209

Trans. of Academiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk Izvestiya, 1944, p. 709-715.

DESCRIPTORS: *Hydrocarbons, Decomposition,
Oxidation.

Oxidizing cracking of normal octane gave products among which no peroxides were found. Nevertheless, there is reason to believe that peroxides constitute primary products of this process. The presence of oxygen in the reaction zone up to a certain limit (20%) promotes decomposition of normal octane and formation of products of its oxidation. Above this limit the decomposition reaction is retarded, as is the oxidation to aldehydes and acids. The temperature is the most (Chemistry--Organic, TT, v. 6, no. 6) (over)

61-18209

I. Nametkin, S. S.
II. Rozenberg, L. N.

176611

Office of Technical Services

Sheinman, A. B. and Tayba, A. N.
VAPOR PHASE OXIDIZING CRACKING OF LIGROIN
AND GAS OIL WITH AIR ENRICHED WITH OXYGEN,
L [1961] 9p. 7 refs.
Order from OTS or SLA \$1.10 61-18207

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1944, p. 716-723.

DESCRIPTORS: *Fuels, *Gasoline, Production, *Benzene, Oxidation, Decomposition.

Oxidizing cracking of ligroin and gas oil in the presence of enriched air containing 40% oxygen occurs without explosions or ignition of the charge stock. In the process of oxidizing cracking with oxygen-enriched air no carbon is formed. The suitability was confirmed of charcoal as a contact substance in oxidizing cracking with air enriched with oxygen. This contact packing (Materials--Fuels, TT, v. 6, no. 9) (over)

61-18207

I. Title: Ligroin
I. Sheinman, A. B.
II. Tayba, A. N.

5426

Office of Technical Services

Larin, A. Ya.
CRACKING OF MAZUT OVER AN ALUMINOSILICATE
CATALYST. [1961] 5p. 12 refs.
Order from OTS or SLA \$1.10

61-18206

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1944, p. 724-728.

DESCRIPTORS: *Fuel oil, *Petroleum; Decomposition, Aluminum compounds, *Silicates, *Catalysis.

Cracking of mazut over an aluminosilicate catalyst was shown to be possible at temperatures lower than used in commercial practice. Distillates were obtained by cracking mazut amounting to up to 80 per cent on the charge, from which gasoline with 150° end point was distilled off, amounting to 15 per cent, and gasoline with 200° end point - to 26 per cent. The octane number of the 150° end point gasoline, when treated with 3 ml. TBL per kg., was 89.1. The aluminosilicate catalyst used resembles aluminum chloride in its action, but exceeds the latter in its life span and simplicity of regeneration. (Author)

61-18206

I. Larin, A. Ya.

176610

Office of Technical Services

(Chemistry--Organic,
TT, v. 6, no. 6)

Effect of Temperature on the Release of Petroleum by
Loose Sands in the Case of Gravitational Flow, by
S. L. Zaks.

RUSSIAN, per, Izvest Akad Nauk SSSR, Otdel Tekh Nauk,
No 10-11, 1944, pp 729-733.

ATB RJ-1347

Sci - *Herphip*

Jul 59

90,715

Investigation of Putilovo Asphaltite, by P. I.
Sarin, V. G. Putsillo.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
1944, pp 734-739.

OTS 61-18343

Sci
Mar 62

189,549

Vol VII, No 2

D'yakova, M. K. and Tsitron, I. L.
THERMAL SOLUTION OF SADKI ASPHALTITES AS
A METHOD OF PREPARATION OF ARTIFICIAL
LIQUID FUEL. [1961] 6p. 2 refs.
Order from OTS or SLA \$1.10

61-18894

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. (Izvestiya), 1944, p. 740-744.

DESCRIPTORS: *Asphalt, Solutions, Petroleum, Fractionation, Distilling plants, Gasoline, *Fuels, Fuel oil, Chemical reactions, Coke, Vanadium, Metallurgy, Solvent extraction, Gases.

Laboratory batch experiments of thermal solution of Sadki asphaltite in solvents consisting of petroleum solar oil, of the 250-360° fraction of the products of dry distillation of Sadki asphaltite or the latter solvent after reclaiming, showed that under optimal conditions (Engineering-Chemical, TT, v. 7, no. 1) (over)

61-18894

I. D'yakova, M. K.
II. Tsitron, I. L.

Office of Technical Services

Organic Substance of Bituminous Shales, by V. A.
Ivanin, M. B. Pronina.

RUSSIAN, per, ~~Iz Ak Nauk SSSR, Otdel Tekh Nauk,~~
1944, pp 745-751.

OTS 61-18834

Sci
Mar 62

189,553

Vol VII, No 2

New Methods of Precise Representation of the Composition
of Multicomponent Systems on a Plane, by A. A. Bochvar.

RUSSIAN, FRENCH, Bulletin De L'Academie Des Sciences
De L'Urss, Cl. des Sci. Techn., No 12, 1944,

Brutcher Tr No 2073

Scientific - Physics

\$3.90

14,921

Preparation of Producer Gas Free of Tar, by
M. K. Grodzovskiy, D. M. Samoylovich.

RUSSIAN, PET, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
~~XXXXXXXXXX~~ No 1, 2, 1945

Dept of Interior
TN7 E57 No 681

Sci- Fuels

Nov 63

242,404

Knorre, G. F.
A NEW METHOD OF TECHNICAL ANALYSIS OF
NATURAL GASES. I. EMPLOYMENT OF GAS
ANALYSIS. [1961] 8p. 3 refs.
Order from OTS or SLA \$1.10

61-18890

Condensed trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. Izvestiya, 1945, p. 70-79.

DESCRIPTORS: Gases, *Natural gas, Analysis,
*Calorimetry.

A simplified method of technical analysis of natural
gas is reported based on calculation of the average
number of carbon atoms per molecule gas from ana-
lytical data for flue gases subjected to additional com-
bustion and using this value for computation of the heat-
ing value, specific gravity, amount of air required for
combustion, etc., with the aid of formulas derived for
(Chemistry--Analytical, TT, v. 7, no. 7) (over)

61-18890

I. Knorre, G. F.
II. Title: Employment ...

Office of Technical Services

Knorre, G. F.
A NEW METHOD OF TECHNICAL ANALYSIS OF
NATURAL GASES. II. DIRECT CALORIMETRY.
[1961] 3p.

Order from OTS or SLA \$1.10

61-18889

Condensed trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. Izvestiya, 1945, p. 185-189.

DESCRIPTORS: Gases, *Natural gas, *Calorimetry,
Analysis.

A method and some equipment are described for deter-
mination of calorific values of natural gas samples,
but also suitable for determination of the calorific value
of other gases, such as producer gas. (Author) (See
also 61-18890)

(Chemistry--Analytical, IT, v. 7, no. 7)

61-18889

I. Knorre, G. F.
II. Title: Direct ...

Office of Technical Services

Theory of Wetting Coal Layers by Adding Traces of
Hydrocarbon Fluids, by A. A. Agroskin, V. S.
Zagrebelskaya.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 3, 1945, pp 190-202.

Dept of Int
US Bur of Mines
Central Exper Sta
Pitts., Pa. Tr 451

Sci - Chem

Jun 59

ALL 88, 550

Three-Dimensional Deformations of Not Completely
Elastic and Visco-Plastic Solids, by A. Yu.
Ishlinskiy, 20 p p.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 3,
1945, pp 250-260.

Sci Trans Center RT-294

Scientific - Physics
CTS/DEX

10,904

The Analysis of Organic Fluorine Compounds, by
N. S. Nikolayev.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Khim
Nauk, 1955, p 309.

DSIR LLU M.1672
(1000)

Sol - Chem

Jun 61

156,806

Theory of Wings in Nonstationary Flow, by A. I.
Nekrasov

RUSSIAN, Per. Iz Ak Nauk SSSR, Otdel Tekh Nauk, No
4-5, 1945, pp 382-395.

Scie Trans Center NT-X623

Scientific -
SIS/DET

Aeronautics
~~Physics~~

10,988

Turbulent Flow in Circular Tubes, by V. I.
Smirnov, V. G. Nevzglyadov, 35 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekh Nauk, No 9, 1945, pp 857-874. 9093981

AEC-Tr-5214

Sci - Phys
Sep 62

210,927

Analysis of the Configuration of Non-Symmetrical
Layouts of Heating Mains, by V. Ya. Khasilev, 14 pp.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 10/11, 1945, pp 1105-1114.

Sci Museum Lib No 53/2402

DSIR 444 M. 2170

USSR

Scientific - Engineering

Mar 54 CTB

9893

Free Combustion of Liquids, by G. N.
Ludyakov.

USSIAN, per, Iz Ak Nauk, Otd Tekh Nauk, Nos
10, 11, 1945, p 1115.

TPA3/FIB
Fire Res Station
2 OT/973

Scientific - Chemistry

13,269

The Effect of Slotted Screens on the Structure of the
Field of a Wave Guide, by D. I. Mash, A. S. Berkman,

RUSSIAN, per Iz Ak Nauk SSSR, Otdel Tekh Nauk, Nos
11, 1975, pp 1139-1144

ABC Tr 264

15,818

Scientific - Electronics

The Outlook for the Use of Oxygen in the Blast Furnace,
by Z. Z. Martin.

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh Nauk, 1946.

Butcher Tr No 1934

Scientific - Man/Metals

\$11.37

15021

GIL'D, P.
ESIN, U.

Investiya Akademi Nauk SSSR, Ot. Tekh. Nauk, 1946,
1 table, 6700 words.

Dissociation of Oxides in the Process of Their Re-
duction.

Butcher Trans, Order No. 2053, \$9.75

Investigation of Solid Electrolytes for use in Gas
Cells, by O. K. Davt'yan

Full trans.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,

no 1, 1946 pp 107-114

AEC Tr 1124

Sci -

HC 2840
ATS RJ-463

Feb 52 CTS

(21 Feb AEC listing)

Gas Cell with Solid Electrolyte, by O. K. Davtyan

RUSSIAN, no per, IZ Ak Nauk SSSR, Otdel Tekh Nauk,
No 2, 1946, pp 215-18.

ATS RJ 464
AEC Tr 1123

HB 2891

Sci -

2 Feb 52 CTS

Russian to French
OTS TT-41-2891/8
Russian to Dutch
OTS TT-41-1892

(21 Feb AEC listing)

IAN-OTN Page 421-39, 1996.

Hydraulic Resistance of Columns
Packed with a Granulated Catalyst
B.A. Zakharov & A.V. Frost

Copy in NT Files

Use of Ejectors in Gas Collector Systems
by S. A. Khristianovich, G. M. Ryabinkov, et al.
26 pp.
RUSSIAN, per, Iz AN SSSR OTN. No 3, 1946, pp 313-328.
P100113967
FTD HT 66-365

Sci-Mechanics
May 67

324e,963

The ¹³ Structure of Scale and the Mechanism of High
Temperature Oxidation of Steel, by V. I. Arkharov.

FRENCH, Bulletin De L'Academie Des Sci De L'Urss,
Classe des Sci, Tech, No 3, 1945, pp 453-457.

Bratcher Tr 1890

Scientific - Min/Metals

\$5.40

12,950

Dynamics of the Process of Low Temperature
Carbonization of Solid Fuel. Communication II.
Heat Transfer to Layers of Particles of
Irregular Form, by F. Chukanov, E. A. Shapstina,

bk,
RUSSIAN, ~~HEB~~, Iz Ak Nauk, Otdel Tekh Nauk,
1946, No 4.

Dept of Interior
TH7 E57 No 453

175,987

Sci - Fuels

Dec 61

IZVESTIYA AKADEMII NAUK SSSR. OTDELENIE
TEKHNICHESKIKH NAUK

1946 N6 P487-498

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1947 N9 P1061-

1949 P644-656

1951 P360-368

1951 N10 P47-

1955 N10 P29-39

59-14628 (+>)

59-15095 (+>)

AD-491 096 (<=)

RT-2790 (<=)

70-23438 (+>)

R-4229 (+>)

59-14367 (+>)

70-22641 (+>)

70-20248 (+>)

R-4476 (+>)

R-5065 (+>)

ORDER FROM NTC

Symmetrical Cavitation Flow Around a Flat Plate,
Situated Between Parallel Walls, by M. I.
Gurevich, 22 p.

RUSSIAN, per, Iz Otdel Tekh Nauk Ak Nauk SSSR.,
1946, No 4,

SLA 59-15095

Sci
Dec 59
Vol 2, No 6

104,459

KORBOVA, M.I.
KORBOV, M.I.

BULLETIN DE L'ACAD. DES SCIENCES DE L'URSS, Classe Sci.
Tech., #4, 1946 (IAN-OTKN)

Catalysts for the Blast Furnace Reduction Process

Butcher Trans 2266, \$5.70

Sullivan, J. E.
Petrovich, J. R.
Robinson, J. A.

Investigate Mechanical Heat Loss, Chl. Tech. Note, 1966,
No. 4, pp. 125-130; 4 tables, 1000 words.

Approximate Colloidal Clay Slurries as Lubricant-Coolants
in the Heat Treating of Metals.

Brother Trust, Order No. 2429, \$2.00

CHUFAROV, G. I.

Bulletin De L'Acad. Des Sci. De L'Urss, Classe des
Sci. Techn., No. 6, 4 figures, 4 tables, 3800 words;
1946.

The Production of Iron and Steel by Reduction of
Carburised Cast.

Butcher Trans, Order No. 1862, \$5.70

Bochvar, A. A. and Sviderskaya, Z. A.
OVER HET VERSCHIJNSEL VAN BUTTENGEWOON
HOGE PLASTICITEIT VAN BEPAALDE ZINK ALUMINI-
UM LEGERINGEN (The Abnormally High Plasticity of
Some Aluminium-Zinc-Alloys). 6p. 4 refs. MTWL: 30
(text in Dutch).

Order from OTS or ETC \$1.55

61-17684

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhni-
cheskikh Nauk. Izvestiya, 1946, p. 1001-1004.

DESCRIPTORS: *Aluminium alloys, *Zinc alloys,
Plasticity, *Phase studies.

61-17684

- I. Bochvar, A. A.
- II. Sviderskaya, Z. A.
- III. MTWL-30
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Dissociation of Oxides in the Process of Their Reduction,
by P. Gel'd and O. Esin, UNCLASSIFIED

RUSSIAN, Iz Ak Nauk SSSR, OTN, 1946, No 6,
pp 899-912.

Brutcher Tr No 2053
Price \$9 75

Scientific - Metallurgy

469

Method of Determining the Pitching and Heaving
Characteristics of Ships, by H. D. Kachin,
I. S. Pisman, 10 pp. UNCLASSIFIED

RUSSIAN, per, Bulletin de l'Academie des Sciences de
l'URSS, Classe des Sciences Techniques, 1946,
pp 1375-1384.

Navy Tr 838/T-253

USER
Scientific - Engineering

Sep 53 CTS

5604

Bochvar, A. A. and Kuzina, V. V.
THE INFLUENCE OF THE CHARACTER OF CRYSTALLIZATION AND THE PERIOD OF CRYSTALLIZATION ON THE MOBILITY OF MOLTEN METAL BETWEEN GROWING CRYSTALS. July 47 [6]p.
BISI-313; [DSR LLU] M.2816.
Order from OTS or SLA \$1.10

61-23173

Trans. of [Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. Izvestiya] 1946, no. 10,
p. 1459-1462.

DESCRIPTORS: *Liquid metals, *Alloys, Crystallization, Crystals, Growth, Aluminum alloys, Copper alloys.

(Metallurgy, TT, v. 6, no. 5)

61-23173

- I. Bochvar, A. A.
- II. Kuzina, V. V.
- III. BISI-313
- IV. DSR LLU M.2816
- V. British Iron and Steel
Industry Translation
Service

180587

Office of Technical Services

Investigation of the Condensation of Water Vapour
on Hydrophobic Cooling Surfaces, by S. Ya. Veller,
P. A. Rebinder, N. L. Goldenberg.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel. Tekh Nauk,
No 10, 1946, pp 1491-1494. CIA 9010131

A.C.S.I.L. Tr 857

Sci - Chemistry
Jul 57

49,283

On the Power Fields of the Simplest Contactless
Fraction Lines of High Frequency Transport, by G. I.
Rebat.

RUSSIAN, Iz Ak Nauk, SSSR, Otdel Tekh Nauk, No 11, 1946.

WRL Tr 138

15,054

Scientific - Electronics

CIA 235300

Direct Reduction of Oxidized and Silicate-Oxidized
Nickel-Cobalt Ores., by D. P. Bogatskiy,

12 AK Nauk, ODEK
RUSSIAN, FRENCH, ~~Bulletin de l'Acad. Des Sci.~~
~~De L'Urss, Cl. Sci. Tech., No 12, 12 figures,~~
1 table, 1350 word abstract; 1946.

1989

Brutcher Tr Order No 19

42-35

2.35-

Scientific - Min/Metals

15,168

Zabavin, V. I. and Khrisanfova, A. I.
DE REACTIE TUSSEN DE ORGANISCHE STOF IN
STEENKOOL EN ZWAVEL (Reaction Between the
Organic Matter of Coal and Sulfur). tr. by
G. J. M. Fritschy. 10p. 10 refs. MTWL: 43.
(text in Dutch).
Order from OTS or ETC \$1.55 61-17661
Trans. of Akademiya Nauk SSSR. Otdelenie Tekhni-
cheskikh Nauk. Izvestiya, 1946, no. 11, p. 1629-1634.
DESCRIPTORS: Coal, *Sulfur, Structures, Colloids,
Chemical reactions.

61-17661

- I. Zabavin, V. I.
- II. Khrisanfova, A. I.
- III. MTWL-43
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
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Office of Technical Services

Multicomponent Systems Represented by Bochner's
Method for the Technology of Silicates, by R. L.
Fevzner, A. Bereznoi.

I2 R. L. Fevzner
FRENCH, RUSSIAN, Bulletin De L'Académie Des Sci.
De L'Union, Ch.-d. Sci. Tech., No 1, 1947.

ITD/TORR/Book
Brutcher Tr 2028

Scientific - Chemistry

\$3.50

15,843

Some New Problems of Structural Mechanics of Shells and
Thin Wall Structures, by V. Z. Vlasov

Full Translation

RUSSIAN, per, Iz Akad Nauk SSSR, Otdel Tekh Nauk, Vol I,
1947, pp 27-51.

AKC Tr 1141

Sci - Physics

Feb 52 CTS

The Stability of Cylindric Beams Under the
Simultaneous Action of Torsion Moments
and Normal Pressure, by V. M. Darevskiy, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Teh. Nauk, No 1, 1947, pp 137-147.

SLA 60-17362

Sci
Vol IV, No 7
May 62

193, 685

Some Studies on the Flow of a Gas in the Region of
Transition through the Velocity of Sound, by L. A.
Klibanov. 10 pp UNCLASSIFIED

RUSSIAN, per, Iz Ak Nauk SSSR, Ot Tekhnich. Nauk,
No 3, 1947, pp 253-255.

Sci Tr Center
RT-1109

15,378

Scientific - Physics

On the Problem of Analytic Representation of the
Deformation Processes of Structures Composed of
Visco-Elastic Elements, by M. I. Rozovskiy, 8 pp.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Nax No 3, 1947, pp 301-305.

Sci Tr Center RT-350

Scientific - Physics

10,133

Failure of Castings Caused by Shrinkage Stresses
During Crystallization, as Related to Composition,
by A. A. Bochvar, Z. A. Sviderskaya.

RUSSIAN, per, Iz. Ak. Nauk SSSR, Otdel Tekh. Nauk,
No 3, 1947, pp 349-355.

HB 4806

Sci Min/Met

Oct 60

Distribution of Microhardness Values Within a Single
Crystalline Grain of Metal, by A. A. Bochvar, O. S.
Zhadaeva, 6 pp.

RUSSIAN, no per. Iz Ak Nauk, Otdel Tekh Nauk, 1947,
pp 419-424.

A.E.R.E. Tr 11/3/5/350

Scientific - Min/Metals

OTS/DEX

7290

IZV AK NAUK TEKH NAUK No 5

May 1947

18 pp

"Multidimensional Electric Models with Amplifiers"

L. I. Guthenmacher

ST-100

IAN-OTN 5/47 - Guthernmacher

SR 12 June 1950

Not published

9T108